

Date: Thu, 15 Sep 94 04:30:35 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #256
To: Ham-Space

Ham-Space Digest Thu, 15 Sep 94 Volume 94 : Issue 256

Today's Topics:

 ANS-253 BULLETINS
 Two-Line Orbital Element Set: Space Shuttle

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 11 Sep 1994 12:59:40 MDT
From: olivea!charnel.ecst.csuchico.edu!yeshua.marcam.com!zip.eecs.umich.edu!
newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@ames.arpa
Subject: ANS-253 BULLETINS
To: ham-space@ucsd.edu

SB SAT @ AMSAT \$ANS-253.01
AO-16 FILE SERVER S/W RELOAD

HR AMSAT NEWS SERVICE BULLETIN 253.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 10, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-253.01

AO-16 Command Team To Reload File Server

At 03:00 UTC 12-SEP-1994 the AO-16 Command Team will begin a reload of the
Ramdisk and File Server software. This "Preventive Maintenance" is war-
ranted by the accumulation of uncorrectable SEU's (Single Event Upsets) in
the file control structures stored on the ram disk. During the past year
four uncorrectable SEU's have been recorded in the directory, root directory

and FAT (File Allocation Table) entries of the error logs. In the past, a crash of the file server software was attributed to these types of errors. Reloading and running the ram disk software will reformat the ram disk thereby cleaning out all the bad SEU's. Fortunately, these uncorrectable errors are not occurring in the Error Detection And Correction (EDAC) memory where the actual spacecraft operational software is run. This allows the command team to unload and reload a task or tasks with the shortest amount of file server downtime. The digipeater will be off during this reload and all stations are requested not to uplink to the satellite during this time. The AO-16 Command Team would like to thank all AO-16 users in advance for your cooperation during this critical software reloading process.

[The AMSAT News Service (ANS) would like to thank Russ Platt (WJ9F) for this bulletin item.]

/EX

SB SAT @ AMSAT \$ANS-246.02
AO-10 STATUS REPORT

HR AMSAT NEWS SERVICE BULLETIN 253.02 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 10, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-253.02

AO-10 Condition

Several satellite operators have asked recently about the condition of AMSAT-OSCAR-10 (AO-10).

Jim Kelly (KK3K) provides the information that he heard a strong telemetry beacon Tuesday morning 6-SEP-94 at about 12:00 UTC. It was at about 145.980 MHz and FMod. Jim notes that AO-10 was in the window at the time. He tried transmitting to it and was able to hear himself through the bird, but the downlink signal was extremely weak and FMod was quite noticeable. As a result, Jim discontinued using it immediately.

It should be noted that AO-10's Engineering Beacon is on a nominal frequency of 145.987 MHz. AMSAT-NA advises anyone hearing AO-10 exhibiting this FMod characteristic, to refrain from using it, as Jim did. This is a measure to conserve the satellite's power system. AO-10 may be old and ailing but it's still usable at times. Let's keep it going as long as we can.

/EX

SB SAT @ AMSAT \$ANS-253.03
FINAL NOTICE FOR AMSAT-NA SYMPOSIUM

HR AMSAT NEWS SERVICE BULLETIN 253.03 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 10, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-253.03

Last Chance to Pre-register for the 1994 AMSAT Annual Meeting and
Space Symposium

Martha Saragovitz (NOCALL) at AMSAT Headquarters reminds us that time is
running short to pre-register for the AMSAT-NA Annual Meeting and Space
symposium to be held in Orlando, Florida October 7,8 and 9. To meet the
deadline, pre-registrations must be received at the AMSAT office by
September 15th. Registrations can be FAXed to: (301) 608-3410.

Anyone needing further information may call the AMSAT office at:
(301) 589-6062. A registration form is page 14 of the July/August
1994 issue of The AMSAT Journal.

/EX

SB SAT @ AMSAT \$ANS-253.04
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 253.04 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 10, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-253.04

Weekly OSCAR Status Reports: 10-SEP-94

A0-13: Current Transponder Operating Schedule:

M QST *** A0-13 TRANSPONDER SCHEDULE *** 1994 Jul 11 - Sep 12

Mode-B : MA 0 to MA 90 | Omnis : MA 230 to MA 30

Mode-BS : MA 90 to MA 120 |

Mode-S : MA 120 to MA 122 |<- S beacon only

Mode-S : MA 122 to MA 145 |<- S transponder; B trsp. is OFF

Mode-S : MA 145 to MA 150 |<- S beacon only

Mode-BS : MA 150 to MA 180 | Blon/Blat 180/0

Mode-B : MA 180 to MA 256 | Move to attitude 230/0, Sep 12

=====

N QST *** A0-13 TRANSPONDER SCHEDULE *** 1994 Sep 12 - Dec 19

Mode-B : MA 30 to MA 150 |<- OFF Oct 22 - Nov 07 for eclipses

Mode-B : MA 150 to MA 190 | max duration 2h 12m

Mode-BS : MA 190 to MA 218 |

Mode-S : MA 218 to MA 220 |<- S beacon only

Mode-S : MA 220 to MA 230 |<- S transponder; B trsp. is OFF

Mode-B : MA 230 to MA 30 | Alon/Alat 230/0

Omnis : MA 250 to MA 140 | Move to attitude 180/0, Dec 19

The battery charge state is of paramount importance during the eclipse

seasons. As always the command team may have to have to make temporary changes to the published schedule. In that case we will try to minimize the inconvenience, setting Mode-B OFF from MA 230-256 in the first instance.

=====

[G3RUH/DB20S/VK5AGR]

F0-20: The long awaited software reloading of F0-20 has completed successfully completed on a pass at about 18:00 UTC on 06-SEP-94 and F0-20 was commanded into its digital mode of operation (Mode-JD). For a while, Mode-JD operation will be continued. However, the F0-20 ground station is concerned that the system may crash when mailbox is activated. The controllers have have noticed some failures of onboard command system during the reloading process. Telemetry reports will be very much appreciated if you capture it just before the any crashes. Send your telemetry to Kazu Sakamoto (JJ1WTK) at his INTERNET address of qga02014@niftyserve.or.jp. But in a further status report, KD2BD reports that F0-20 mailbox came back to life over the Labor Day weekend. KD2BD notes that the satellite was sending it's usual ASCII telemetry in AX.25, BPSK, 1200 bps format, and the mailbox was in operation with several active messages. [JJ1WTK & KD2BD]

A0-27: A0-27 has an Uplink frequency of 145.85 MHz FM and Downlink frequency of 436.80 MHz FM. N9AVG reminds everyone that like A0-21, A0-27 operates as part-time repeater. [N9AVG]

I0-26: ITAMSAT Status as of 9-SEP-94: After 40 days of stand-by, ITAMSAT was switched on by ground command and a full spacecraft checkout was performed by the control team. I0-26 was in excellent shape, the battery fully charged and the critical parameters in nominal status. A couple of test software were loaded and executed without any problem. The reason for the long silence is due to the heavy workload of the control team (I2KBD also spent some time in Chile to help the CESAR team) and a lightning that destroyed the main command station. The reload of the Integrated House-keeping Task (IHT) code with improved capabilities is scheduled to be completed by the end of September to celebrate the first year in orbit of I0-26, so expect a couple more weeks of discontinued use. Best regards, Alberto (I2KBD) ITAMSAT Mission Director. [I2KBD]

K0-25: WH6I reports that K0-25 has still been operational this entire week as far as he can tell. [WH6I]

K0-23: WH6I reports that K0-23 is up and running. He wonders if there is a flaw in the directory as he seem to be having a lot of trouble clearing fills for the directory. [WH6I]

A0-16: A0-16 is up and running without any problems. [WH6I]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ N0QCU. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

Date: Wed, 14 Sep 1994 20:25:15 GMT
From: iris.mbvlab.wpafb.af.mil!blackbird.afit.af.mil!tkelso@uunet.uu.net
Subject: Two-Line Orbital Element Set: Space Shuttle
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, *(205) 409-9280*, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 64

1	23251U	94059A	94257.05513640	.00002039	10686-4	74625-5 0	192
2	23251	57.0109	205.2182 0008652	271.8373	174.6719	16.05429747	661

1994059B

1	23253U	94059B	94257.10240447	.00288089	48389-4	39331-3 0	29
2	23253	57.0048	204.9964 0009569	267.0568	92.9980	16.05761180	33

--

Dr TS Kelso
tkelso@afit.af.mil

Adjunct Professor of Space Operations
Air Force Institute of Technology

End of Ham-Space Digest V94 #256
